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US006585409B2

(12) **United States Patent**
Schmidt et al.

(10) Patent No.: **US 6,585,409 B2**
(45) Date of Patent: ***Jul. 1, 2003**

(54) **TEMPERATURE-MEASUREMENT DEVICE
WITH DIFFRACTIVE OPTICS**

(75) Inventors: Volker Schmidt, Berlin (DE); William
Menchine, Santa Cruz, CA (US);
Hans-Jurgen Rostalski, Berlin (DE);
Frank Wyrkowski, Jena (DE)

(73) Assignee: Raytek Corporation, Santa Cruz, CA
(US)

(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(h) by 0 days.

This patent is subject to a terminal dis-
claimer.

(21) Appl. No.: 10/039,758

(22) Filed: Oct. 27, 2001

(65) **Prior Publication Data**

US 2002/0061048 A1 May 23, 2002

Related U.S. Application Data

(63) Continuation of application No. 08/836,369, filed on Oct.
20, 1997.

(30) **Foreign Application Priority Data**

Aug. 3, 1995 (DE) 195 28 590
Jul. 29, 1996 (WO) PCT/EP96/03330

(51) Int. Cl.⁷ G01K 1/00; G01J 5/02

(52) U.S. Cl. 374/121; 374/141; 33/DIG. 21;
362/259; 250/491.1; 356/399

(58) Field of Search 374/120, 121,
374/124, 141, 208; 33/DIG. 21; 362/35,
259; 356/49, 399; 250/491.1

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,315,150 A * 2/1982 Darringer et al. 250/336.1

1,494,881 A 1/1985 Everest 374/124

(List continued on next page.)

FOREIGN PATENT DOCUMENTS

DE	29 19 839 B1	10/1980	
DE	32 13 955 *	4/1982	
DE	32 13955 A1	10/1982	374/121
DE	36 03464 A1	10/1986	
DE	37 10486 C1	8/1988	
EP	0 458 200 B1	7/1994	
GB	2203537 *	10/1966	
GB	2 203 537 A	10/1988	
JP	57-22521 *	2/1982	374/121
JP	62-12848 *	2/1982	374/121
JP	62 12848	3/1987	

OTHER PUBLICATIONS

The Optometrics Group, Transmission Grating Beamsplit-
ters, pp. 60,61, 1993.*

Patricia Mokry: "Unique Applications of Computer-Gener-
ated Diffractive Optical Elements", Polaroid Corporation,
Optical Engineering, Cambridge MA 02139 (1989).

Thomas K Gaylord, et al: "Analysis and Applications of
Optical Diffraction by Gratings" *Proceedings of the IEEE*,
vol. 73(5) pp. 894-937; May 1995.

Primary Examiner—Diego Gutierrez

Assistant Examiner—Mirellys Jagan

(74) Attorney, Agent, or Firm—Law Office of Charles E.
Krucger

(57)

ABSTRACT

A device for temperature measurement uses an optical
system to image the heat radiation emanating from a mea-
surement spot on an object of measurement onto a detector.
A sighting arrangement is also provided which has a dif-
fractive optical system by which a light intensity distribution
is produced which corresponds to the position and size of the
measurement spot on the object of measurement.

2 Claims, 7 Drawing Sheets

